

9/19/3  
DIALOG(R) File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07247214     \*\*Image available\*\*  
ROTARY SHAFT SUPPORT STRUCTURE IN FLUID MACHINERY

PUB. NO.: 2002-115668 [JP 2002115668 A]  
PUBLISHED: April 19, 2002 (20020419)  
INVENTOR(s): YAMAMOTO SHINYA  
                MORITA KENICHI  
                KUWABARA MAMORU  
                SHOJI HITOSHI  
APPLICANT(s): TOYOTA INDUSTRIES CORP  
APPL. NO.: 2000-311860 [JP 2000311860]  
FILED: October 12, 2000 (20001012)  
INTL CLASS: F04B-053/00; F04C-025/02; F04C-029/00; F16C-035/073;  
F16J-015/32

#### ABSTRACT

PROBLEM TO BE SOLVED: To prolong service life of a **lip seal** provided in parallel with a **bearing** without shortening service life of the **bearing** in fluid machinery.

SOLUTION: **Lip seals** 45, 46 are arranged in protruding end parts 192, 202 of rotary **shafts** 19, 20 protruding in a gear storage chamber 331 by passing through a rear housing 14. The radial **bearing** 37 is attached to the protruding end part 192 through a serial base 47. The radial **bearing** 38 is attached to the protruding end part 202 through a serial base 48. Flanges 471, 481 are formed on the serial bases 47, 48. An inner ring 371 of the radial **bearing** 37 is brought into contact with the flange 471, and an inner ring 381 of the radial **bearing** 38 is brought into contact with the flange 481.

COPYRIGHT: (C)2002,JPO

C:\Program Files\Dialog\DialogLink\Graphics\40.bmp

